

NOVEMBER/DECEMBER 2024

**CIM62/BIM62 — SOFTWARE
ENGINEERING**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Software Engineering.
2. What are the activities involved in Software Maintenance?
3. Mention any two factors that affect Software Cost.
4. Enlist the goals of Software Requirements Definition.
5. List down the goals of Software Design.
6. State the principle of Information Hiding.
7. What is called an Abstraction?
8. Define: Quality Assurance.
9. Name the activities involved in System Testing.
10. Differentiate between the Top-down and Bottom-up Strategies.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Narrate any ten factors that influence the Quality and Productivity of Software.

Or

- (b) Briefly describe the managerial issues of the Software Project Management.

12. (a) Describe about the Software Cost Factors.

Or

- (b) Write an account on Software Requirements Specification.

13. (a) Explain various types of Coupling and Cohesion.

Or

- (b) Enumerate the Do's and Don'ts of good Coding Style.

14. (a) Illustrate the importance of Type Checking feature.

Or

- (b) Write an account on Static Analysis.

15. (a) How to enhance Maintainability during development? Explain.

Or

- (b) Discuss about the Configuration Management.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the Phased model of the software life cycle.

17. Exemplify the various Relational Notations used in Formal Specification.

18. Expound the fundamental Design concepts in detail.

19. Exemplify the User —defined Data types.

20. Elucidate the importance of Unit Testing and Debugging.